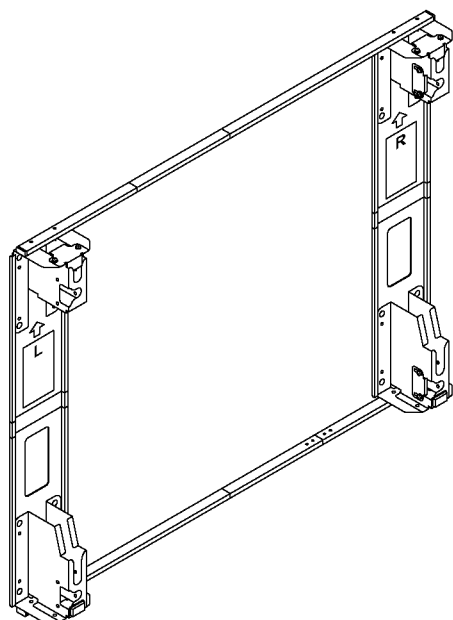


Service Manual

Wall-hanging bracket for Plasma Display (Vertical mounting type)

Model No. **TY-WK85PV12**
TY-WK85PV12C



⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1 Safety Precautions

WARNING

Ensure that the installation location is strong enough to support long-term use.

- If its strength becomes insufficient over the course of long-term use, the display may drop, possibly causing injury.

Installation and removal should only be carried out by a qualified technician.

- If the bracket is installed incorrectly, the display may fall down and personal injury may result.

Make sure that all safety factors regarding strength of installation are observed.

- If the installation strength is insufficient, the display may fall down and personal injury may result.

Do not install in places which are unable to bear loads.

- If the strength of the installation surface is insufficient, the display may fall down and personal injury may result.

Do not disassemble or remodel the wall-hanging bracket.

- Otherwise the unit may be dropped and become damaged, and personal injury may result.

CAUTION

Do not install in places which are subject to humidity, dust, oil fumes, water vapour or excessive heat.

- These can have adverse effects on Plasma Display operation, and fire or electric shocks may result.

Do not use any displays other than those given in the catalogue.

- Otherwise the unit may be dropped and become damaged, and personal injury may result.

Do not install the Plasma Display face up, sideways or upside down.

- Doing so may cause heat to build up inside the display, and fire may result.

Do not hang from the plasma display or wall-hanging bracket or hang any objects on either the plasma display or the wall-hanging bracket.

- The plasma display may fall over, possibly causing injury.

When installing or removing the plasma display, use a lowering device (machine), and ensure that the work is done by at least four persons.

- If four people are not present, the display may be dropped, and personal injury may result.

Leave a space of at least 10 cm (3.9") at the top, left and right, at least 10 cm (3.9") at the bottom, and at least 15 cm (5.9") at the rear.

- The plasma display unit has air blow and air suction holes on the bottom and rear. Covering these may result in a fire.

When assembling and installing the wall-hanging bracket, make sure that the screws in all the locations are tightened up securely.

- Failure to do so may result in warping, deformation, or degradation of materials, and a loss of strength that may cause the equipment to fall over or break and cause injury.

Dispose of the product when it is no longer going to be used.

- Otherwise, it may break and fall down, possibly causing injury.

2 Specifications

Model Name	TY-WK85PV12 / TY-WK85PV12C
Type	Wall-hanging bracket for Plasma Display (Vertical mounting type)
Dimensions	55 ²⁹ / ₃₂ " (1420 mm) (W) x 5 ⁵¹ / ₆₄ " (147 mm) (D) x 42 ¹¹ / ₆₄ " (1071 mm) (H)
Weight	38.6 lb (17.5 kg)
Dimensions with Packaging	43 ³³ / ₆₄ " (1105 mm) (W) x 13 ¹⁵ / ₆₄ " (336 mm) (D) x 9 ²⁹ / ₆₄ " (240 mm) (H)
Weight with Packaging	47.0 lb (21.3 kg)
Material	Base metal (SPCC), Holder (SGHC-Z08), Joint (STKMR, SGHC)

3 Disassembly and Assembly Instructions

3.1. Precautions for wall-hanging bracket fitting

- The wall-hanging bracket is for use in installing the Plasma Display to a vertical wall for viewing purposes. Do not use it for any type of installation other than vertical wall installation.
- In order to ensure correct, problem-free operation of the Plasma Display, do not install the Display in any of the following places.
 - Near sprinklers or fire/smoke detectors
 - Where there is a risk of exposure to vibration or impact
 - Near high-voltage wires or dynamic power supplies
 - Near sources of magnetism, heat, water vapor or soot
 - Locations exposed to air blown from heating equipment
 - Where droplets of condensation from an air conditioner or other unit may form
- When installing this wall-hanging bracket unit, use a fixing method appropriate to the type of wall.
- Fit so there is no contact between the attachment bolts or power cord and any metal inside the wall.
- Insert the power cord plug for the Plasma Display into a wall outlet which is close and easily accessible.
- Provide adequate ventilation so that the temperature around the display does not rise above 40 °C (104 °F). If there is insufficient movement of the air inside display, heat may build up inside the display, and fire may result.
- Spread a soft blanket or cloth over the floor so that the plasma display and floor will not be marked or scratched during the assembly and installation work.
- When screwing down the parts, ensure that the screws are neither insufficiently tightened nor over tightened.
- Take sufficient care to ensure safety around you when performing the assembly and installation work or while moving about during the course of the work.
- Do not use any components other than the packaged ones.

3.2. Disassembly and Assembly Instructions

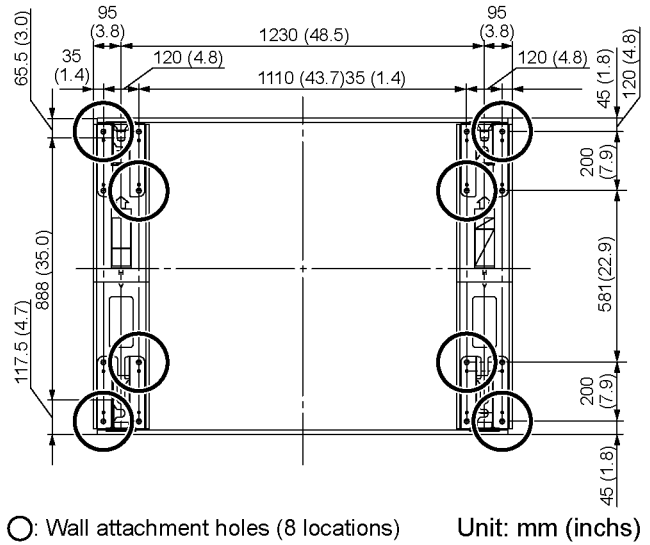
Please assemble and install the stand according to the following procedures.

1. Confirm the strength of the installation location.

1. The weight of the wall-hanging bracket is approximately 18 kg (39.7 lbs.). For the weight of the plasma display attached to the wall-hanging bracket, please see manual for the plasma display.
2. Refer to the outline drawing of the wall-hanging bracket on the right, check the strength of the wall in the eight locations at the position where the wall-hanging bracket will be installed, and provide reinforcement if the wall is not strong enough.

Caution

- Mounting holes are provided in 16 places at the top and bottom of the wall-hanging bracket. If the wall is made of a material such as wood and if it is not possible to ensure that the wall will be strong enough to support the installation by securing the bracket using the eight locations shown on the right, use the spare holes as well. Bear in mind, however, that using the spare holes as well may cause the wall to crack.
- ※ Refer to 4. Dimensions for the detailed dimensions that apply when installing the plasma display.



2. Prepare the plasma display.

Caution

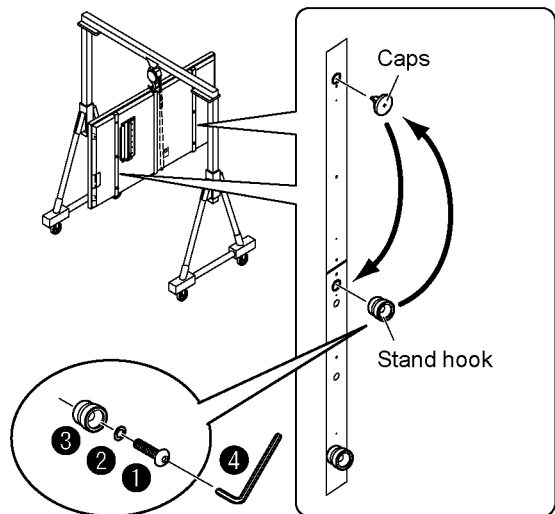
- Because the display is heavy, handle it carefully by the use of lifting equipment (machine).
- **Horizontal installation** The controls of the plasma display are located on its right panel. During the installation process, take steps to prevent the panel from being knocked against any surrounding objects.
- **Vertical installation** Position the plasma display so that the controls on its right panel are at the bottom. When suspending the display, also use the eye bolts provided with the plasma display as accessory parts.

Preparing for Installation

1. Place the hook of lifting equipment in the display's center eyebolt, lift up the display, and put it on soft stuff such as a blanket. (The display should be kept in an upright position.)
 2. Remove the two caps (at the top) from the rear panel of the plasma display.
 3. Attach the stand hooks at the places where the caps were removed.
 4. Attach the caps at the places where the stand hooks were removed.
- The bolt should be securely tightened to the torque given below. (16~20 N•m)

Caution

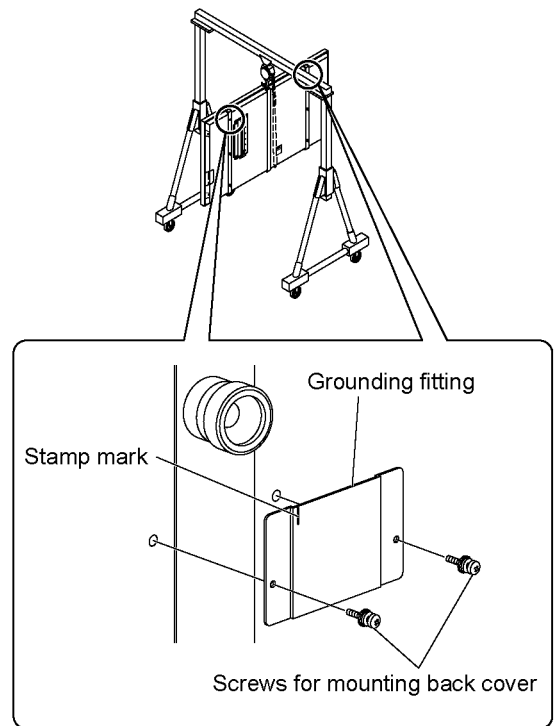
- Make sure that the stand hooks are firmly secured.



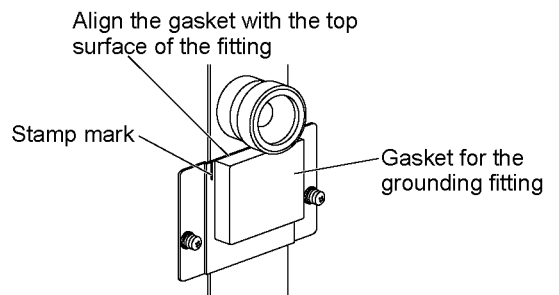
1	Hexagon socket head button bolt
2	Spring washer
3	Stand hook
4	Allen key (provided with plasma display)

5. Remove the two screws for mounting back cover under the stand hook which are attached to the back of the plasma display unit. With the engraved mark facing up, mount the grounding fitting and secure it using the screws which were removed.

- The screws should be securely tightened to the torque given below.
(1.2~1.5 N•m)



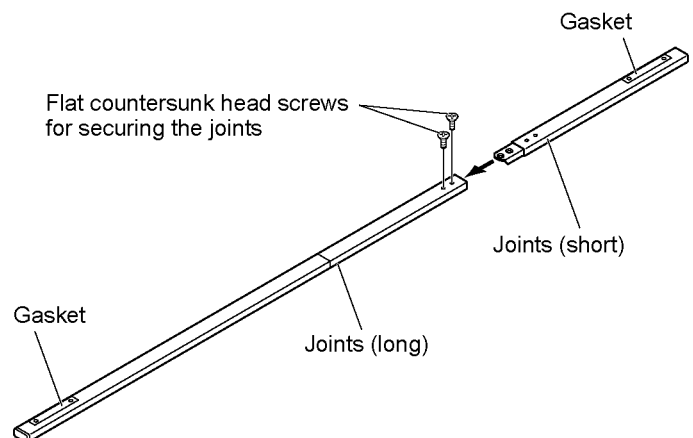
6. Adhere the gasket for the grounding fitting on the grounding fitting after aligning the gasket with the engraved mark and top surface of the grounding fitting.



3. Assembling the wall-hanging bracket.

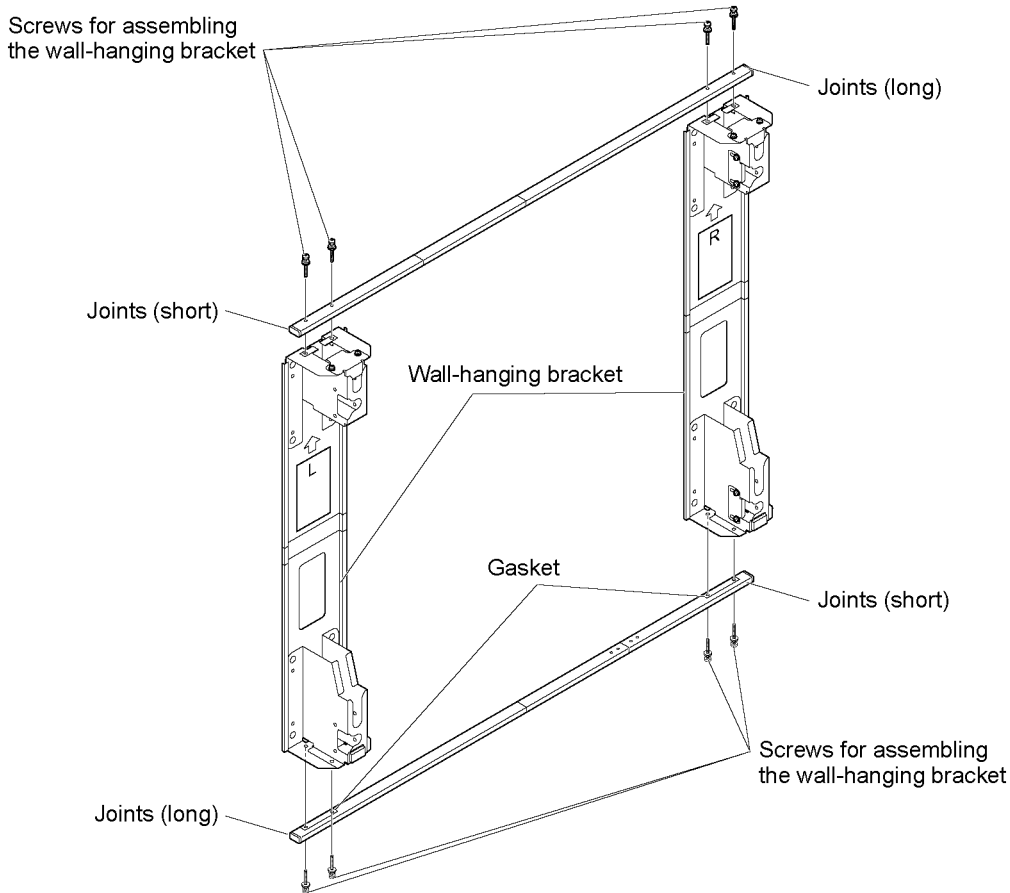
1. Position the joints so that the gasket sides are facing up, and insert the short joints into the long joints. Secure the joints together using the two flat countersunk head screws provided for this purpose. (Make two assemblies of the long and short joints.)

- The screws should be securely tightened to the torque given below.
(1.2~1.5 N•m)



2. Place the bracket unit marked “L” on the left and the bracket unit marked “R” on the right, and assemble the bracket units with the two joints using the eight screws for assembling the wall-hanging bracket as illustrated. Align the gasket sides of the joints with the bracket units.

- The screws should be securely tightened to the torque given below.
(2.5~3.5 N•m)



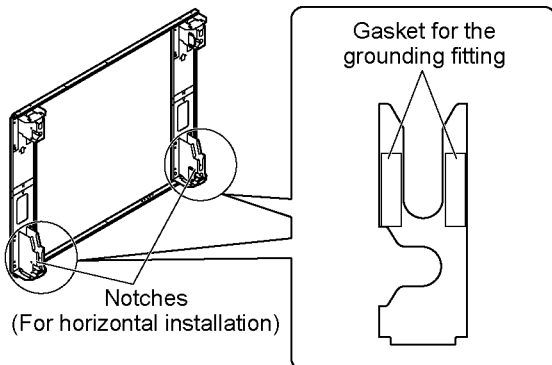
Caution

- When handling the assembled wall-hanging bracket, take hold of the “L” and “R” bracket units. If it is held by the joints, the joints may be bent out of shape.

3. Adhere the gaskets for the wall-hanging bracket as shown in the figure.

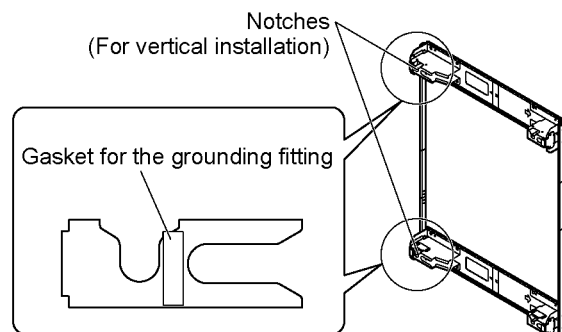
Horizontal installation

Adhere two of the gaskets to the left and right of the cutout at the bottom.



Vertical installation

Adhere one gasket to the right of the cutout on the left.



4. Install the wall-hanging bracket to the wall.

1. Based on the dimension drawing, find the positions of the holes which will be used to mount the brackets on the wall, and mount the brackets on the wall.
2. **Horizontal installation** Install the wall-hanging bracket so that its engraved mark (arrow) is pointing up.
Vertical installation Install the wall-hanging bracket with the unit marked "L" at the top.
3. Use commercially available bolts or nuts with a nominal diameter of 12 mm to secure the brackets at all 8 mounting holes.

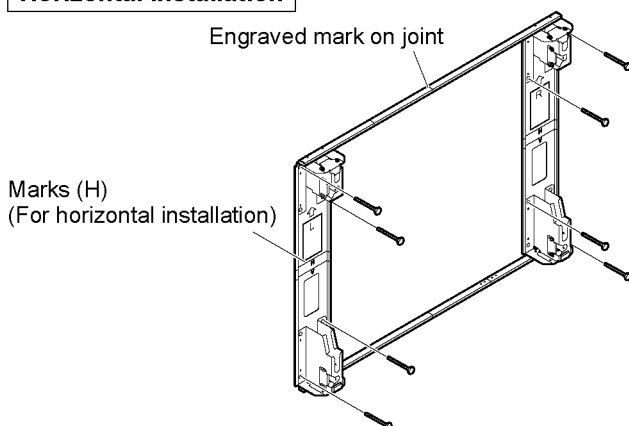
Caution

- Use commercially available bolts with a nominal diameter of 12 mm that are suited to the wall material.
- Check the strength of the mounting bolts, and use bolts which are strong enough.

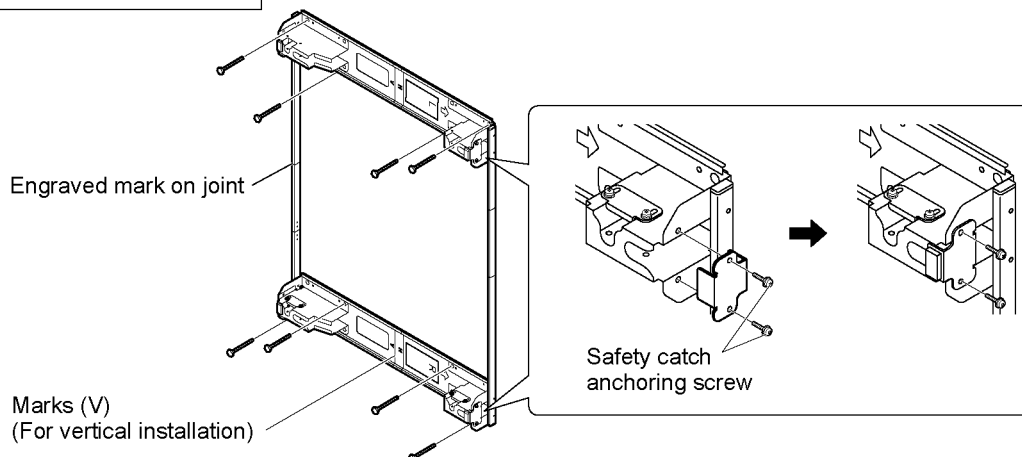
Notes

- The "V" and "H" engraved marks on the wall-hanging bracket and the engraved marks in the center of the joints indicate the center position of the plasma display.
- It is recommended that you leave a maintenance space of at least 70 cm (27.6") behind the plasma display.

Horizontal installation



Vertical installation



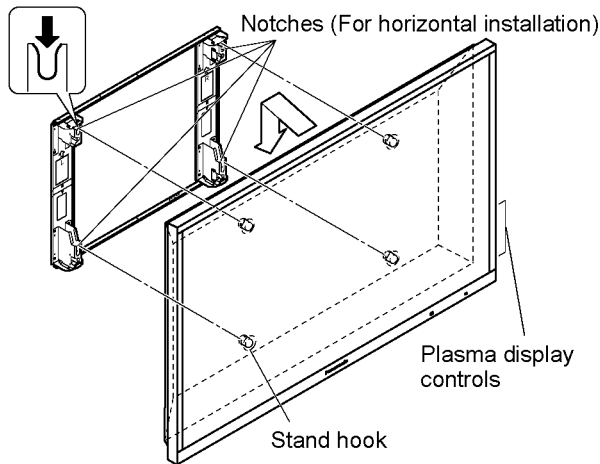
Note

- With a vertical installation only, remove the screws (two each) for securing the unit lock-in brackets provided on the right side of the "L" and "R" bracket units, and remove the unit lock-in brackets. Rotate the unit lock-in brackets through 180 degrees so that they are positioned back to front, and secure them using the screws which were removed.

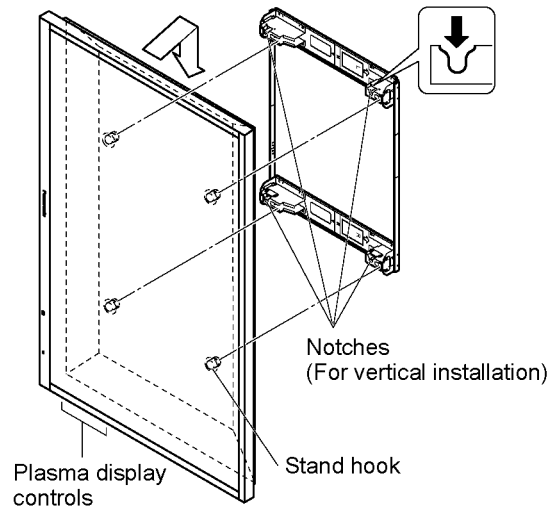
5. Install the plasma display to the wall-hanging bracket.

Insert the stand hooks (x4) on the display into the notches of the wall-hanging brackets, and lower the display straight down.

Horizontal installation



Vertical installation



Caution

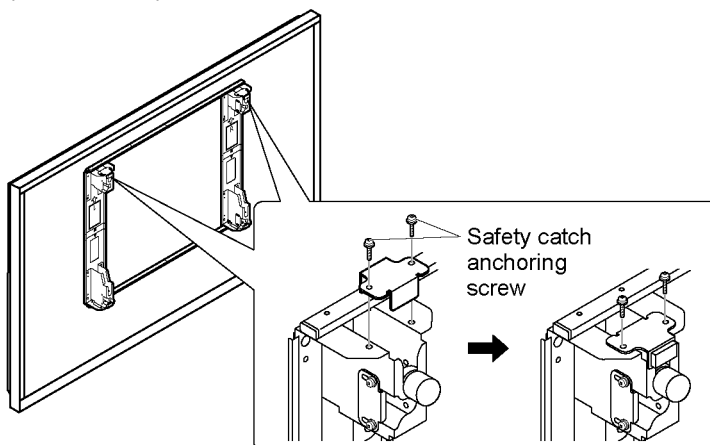
- When using a LAN cable for the plasma display, route the LAN cable away from the other cables (except for the power cable).

6. Securing the plasma display.

Horizontal installation

Remove the screws (two each) for securing the unit lock-in brackets provided on the top of the "L" and "R" bracket units, and remove the unit lock-in brackets. Rotate the unit lock-in brackets through 180 degrees so that they are positioned back to front, and secure them using the screws which were removed.

- The screws should be securely tightened to the torque given below.
(2.5~3.5 N•m)

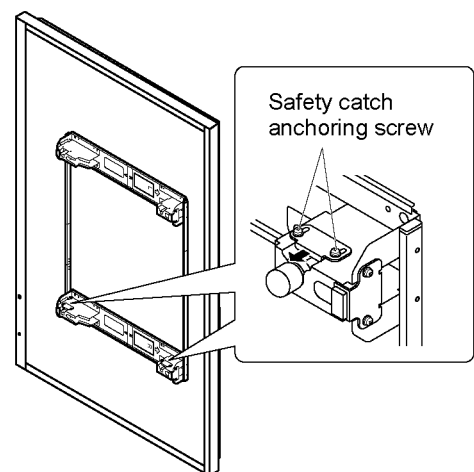


Vertical installation

Loosen the screws for securing the left and right unit lock-in brackets provided on the bottom "R" of the bracket unit.

Slide the unit lock-in brackets toward you, and tighten the screws to secure them.

- The screws should be securely tightened to the torque given below.
(2.5~3.5 N•m)



Caution

- Be sure to tighten the left and right safety catches to prevent the display from detaching from the wall-hanging bracket.

3.3. Removing the plasma display from the bracket

1. Refer to the figure in step 6, and remove the unit lock-in brackets.

Horizontal installation Remove the two unit lock-in brackets attached to the top of the “L” and “R” bracket units.

Vertical installation Remove the left and right unit lock-in brackets provided on the bottom “R” of the bracket unit.

2. Lift the display straight up.

Note

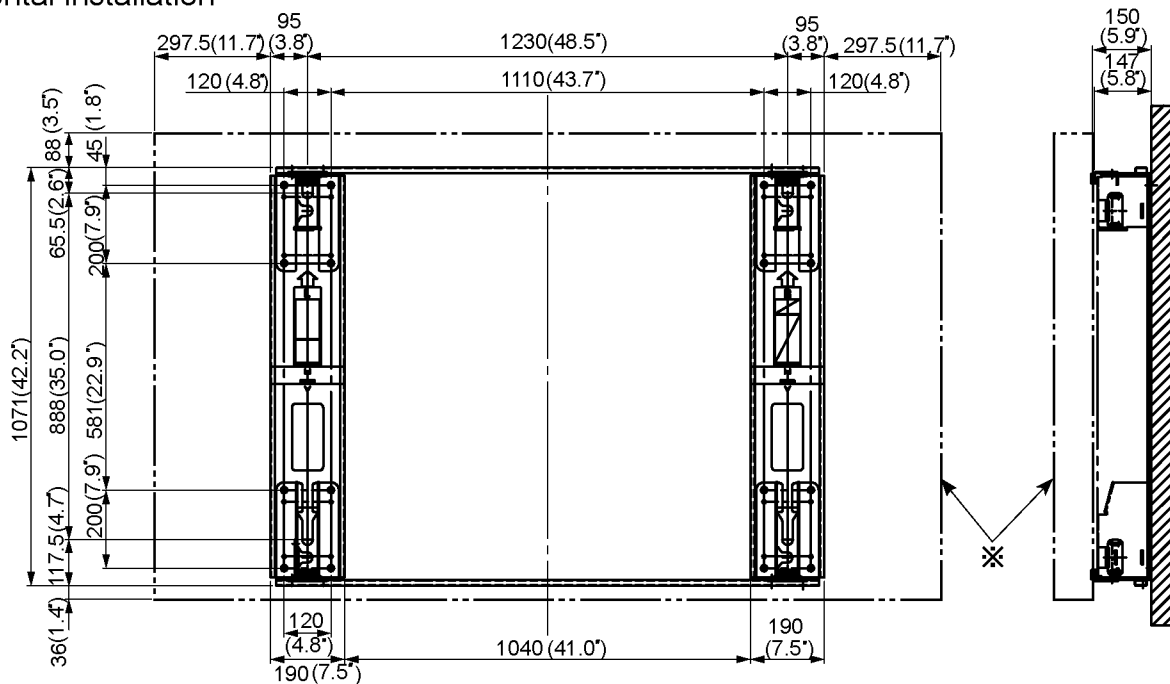
- To remove the display, lift it about 70 mm (2.8”).

4 Dimensions

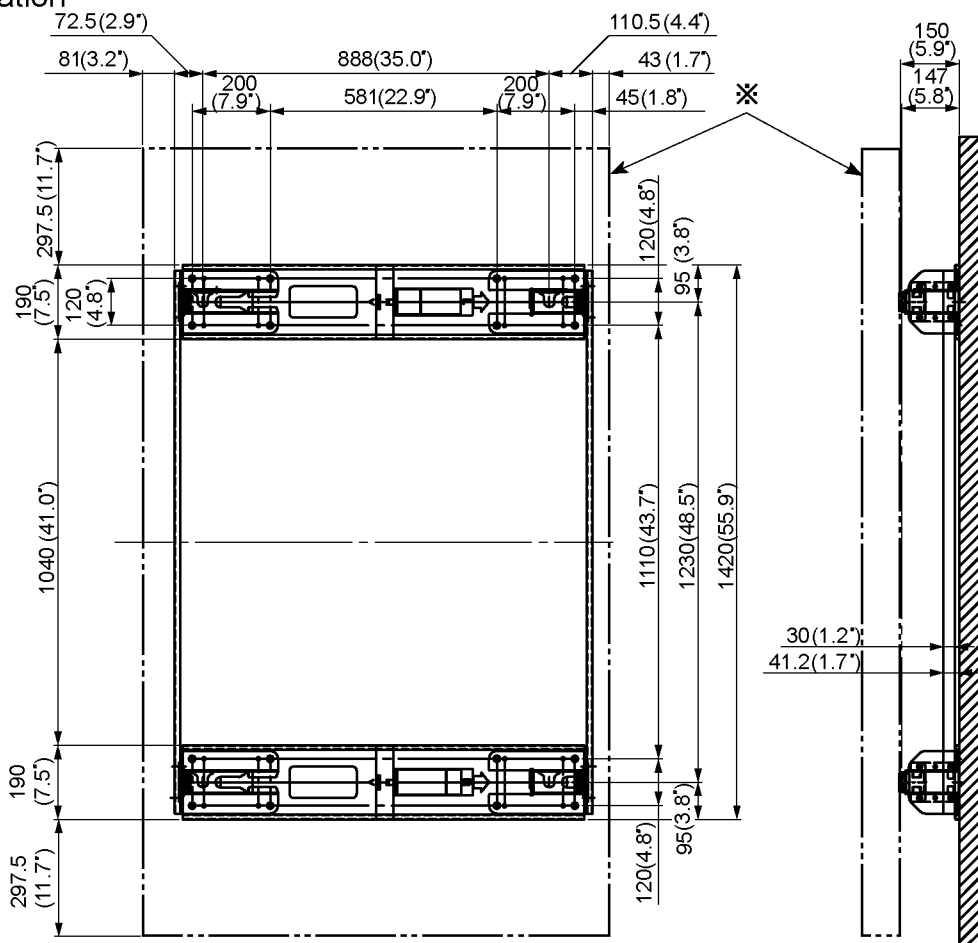
Wall-hanging bracket (Vertical mounting type)

Unit : mm (inches)

Horizontal installation



Vertical installation

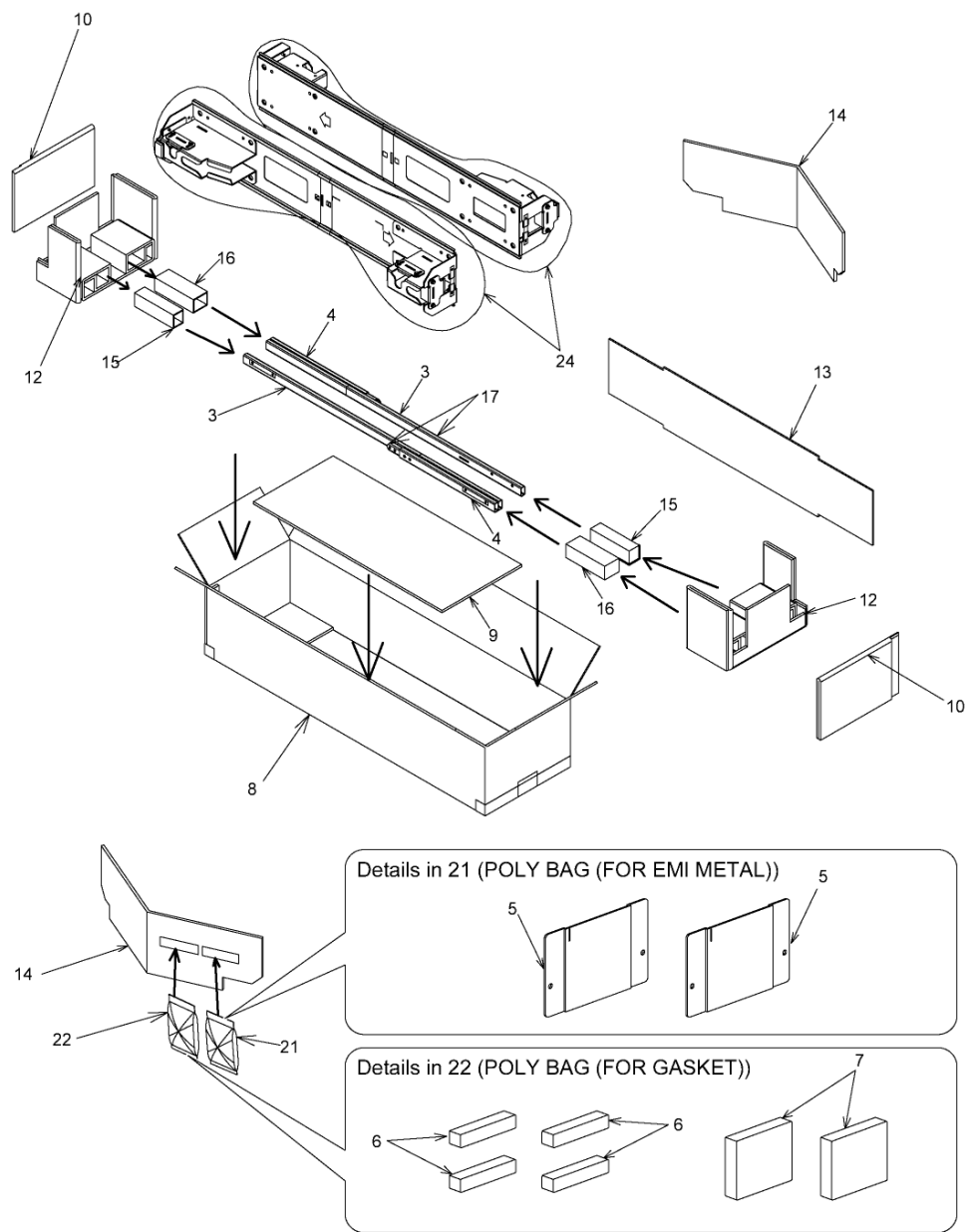


✱ Plasma display external dimensions

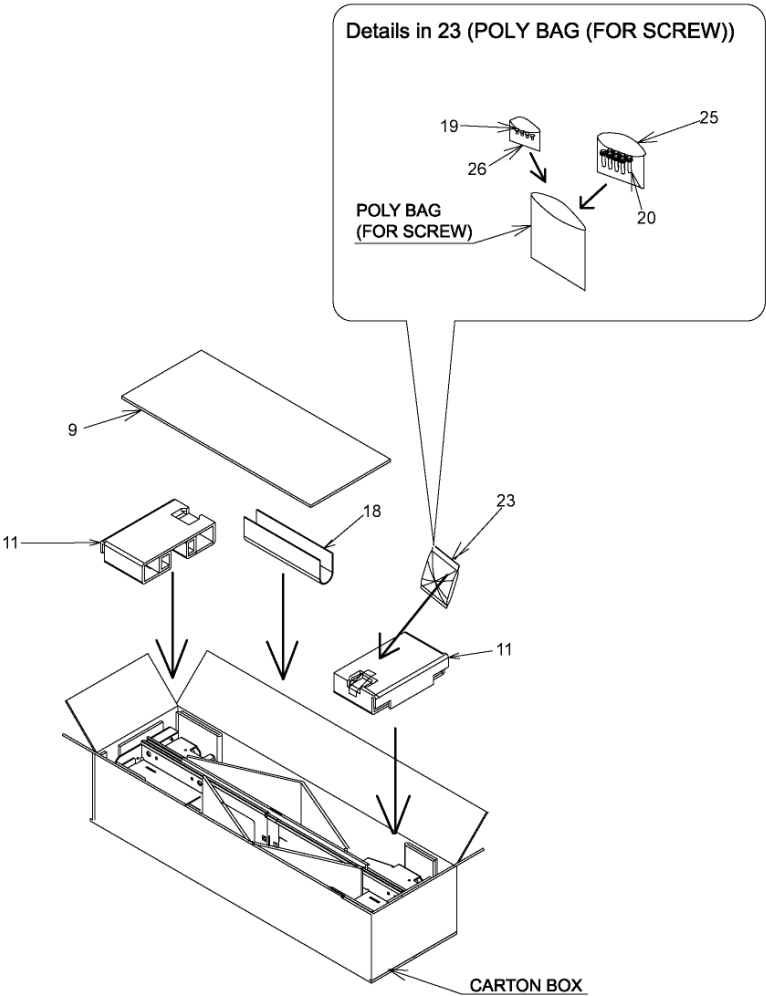
5 Requests regarding handling

- 1) Exercise care when selecting the location for the display because it may discolor or deform due to light or heat if it is placed where it is exposed to direct sunlight, or near a heater.
- 2) For cleaning, wipe the display using a soft dry cloth (made of cotton or flannel). If the unit is extremely soiled, first wipe off soiling with a neutral detergent diluted in water, and then wipe with a dry cloth. Do not use cleaners such as benzene, thinner or furniture wax because they may cause paint peeling. (For information on cleaning the display unit, see the display unit's instruction manual. If using a chemically treated cloth, follow the instructions supplied with the cloth.)
- 3) Do not affix adhesive tape or stickers to the product. Doing so may dirty the surface of the wall-hanging bracket. Do not allow long-term contact with rubber, vinyl products or the like. (Doing so will cause deterioration.)
- 4) The panel of the plasma display is made of glass. Do not apply a strong force to it or subject it to impact.

Model No. : TY-WK85PV12/TY-WK85PV12C Exploded View



Model No. : TY-WK85PV12/TY-WK85PV12C Packing Summary



Model No. : TY-WK85PV12/TY-WK85PV12C Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	3	TBLA0499	JOINT LONG ASS'Y	2	
	4	TBLA0502	JOINT SHORT ASS'Y	2	
	5	TBLA3833	EMI METAL	2	
	6	TEWA660	GASKET D (t15X15X50)	4	
	7	TEWB536	GASKET C (t15X50X50)	2	
	8	TPCC71601	CARTON BOX	1	TY-WK85PV12
	8	TPCC71601A	CARTON BOX	1	TY-WK85PV12C
	9	TPDF2416	PROTECTION PAD (UPPER/LOWER)	2	
	10	TPDF2417	PROTECTION PAD (LEFT/RIGHT)	2	
	11	TPDF2418	PROTECTION PAD (UPPER)	2	
	12	TPDF2419	PROTECTION PAD (LOWER)	2	
	13	TPDF2420	PROTECTION PAD (CENTER)	1	
	14	TPDF2421	PROTECTION PAD (FRONT/REAR)	2	
	15	TPDF2422	PROTECTION PAD (JOINT LONG)	2	
	16	TPDF2423	PROTECTION PAD (JOINT SHORT/LONG)	2	
	17	TPEB421	PROTECTION SHEET (JOINT PACKING ASS'Y)	2	
	18	TQZJ171	INSTRUCTION SHEET	1	TY-WK85PV12
	18	TQZJ181	INSTRUCTION SHEET	1	TY-WK85PV12C
	19	XSS4+8FJK	SCREW (M4X8)	4	
	20	XYN6+F30FJK	SCREW (M6X30)	8	
	21	XZB17X19C09	POLY BAG (FOR EMI METAL)	1	
	22	XZB17X19C09	POLY BAG (FOR GASKET)	1	
	23	XZB17X19C09	POLY BAG (FOR SCREW)	1	
	24	XZB50X150C10	BAG (BASE METAL ASS'Y)	2	
	25	XZB6X11C09	POLY BAG (FOR SCREW M6X30)	1	
	26	XZB6X8C09	POLY BAG (FOR SCREW M4X8)	1	